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PTO-1390 (Rev. 02-2005) proved for use through 3/31/2007. OMB 0651-0021 emark Office; U.S. DEPARTMENT OF COMMERCE U.S. Patent an

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 176/61442

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/US2004/000093 02 January 2004 (2.01.2004) 02 January 2003 (2.01.2003) TITLE OF INVENTION HYBRIDIZATION-BASED BIOSENSOR CONTAINING HAIRPIN PROBES AND USE THEREOF APPLICANT(S) FOR DO/EO/US MILLER, Benjamin L.: KRAUSS, Todd D.; DU, Hui; CRNKOVICH, Nicole and STROHSAHL, Christopher M. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. X This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. X The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). |X| has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau.

10. 🔲	An English language translation of the annexes of the International Prelimi
_	Article 36 (35 U.S.C. 371(c)(5)).

An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).

have not been made and will not be made.

inary Examination Report under PCT

have not been made; however, the time limit for making such amendments has NOT expired.

An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).

Items 11 to 20 below concern document(s) or information included:

11. 🔀

12	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is include
13. 🗌	A preliminary amendment.
14.	An Application Data Sheet under 37 CFR 1.76.
15. 🗆	A substitute specification.
16. 🗌	A power of attorney and/or change of address letter.
17. 🗌	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. 🗌	A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. 🗌	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. X	Other items or information: UNSIGNED Combined Declaration and Power of Attorney.

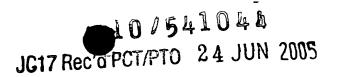
This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

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U.S. APPLICATION 10 (1) kg/b/b stee 17 (F)R 15)			INTERNATIONAL AF	INTERNATIONAL APPLICATION NO. PCT/US2004/000093		ATTORNEY'S DOCKET NUMBER			
		176/61442							
The foll	owing fees have b	CALCULATIONS	PTO USE ONLY						
21. 🔀 Basi	c national fee	\$300	\$ 300.00						
If International p PCT Article 33	nination fee refmi nary examin: 3(1)-(4)	\$ 200.00							
Search fee (37 C International Search	rch fee FR 1.445(a)(2)) ha nal Searching Aut rch Report prepare s	100.00							
	TOTAL OF 21, 22	\$ 600.00							
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CLAIMS NUMB		ER FILED	NUMBER EXTRA	RATE	\$				
Total claims		66 - 20 =	46	x \$ 50	\$ 2,300.00				
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MULTIPLE DEPENDENT CLAIM(S)				+ \$360	\$ 0.00				
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X Applicant da	ims smal entity st	tatus. See 37 CFf	R 1.27. Fees above are reduc	ed by ½.	1,515.00	ľ			
				SUBTOTAL =	\$ 1,515.00				
•	f \$130.00 for furni late (37 CFR 1.49	\$ 0.00							
			TOTAL	NATIONAL FEE =	\$ 1,515.00				
•	the enclosed assi cover sheet (37 (\$ 0.00							
			TOTAL F	EES ENCLOSED =	\$	1,515.00			
					Amount to be	\$			
		refunded:	\$						
a. X A check in the amount of \$ 1,515.00 to cover the above fees is enclosed.									
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1138 . A duplicate copy of this sheet is end osed.									
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not									
be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
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United States	of America	ON NUMBER							



EXPRESS MAIL CERTIFICATE

DOCKET NO.: 176/61442

APPLICANT(S): MILLER et al.

HYBRIDIZATION-BASED BIOSENSOR CONTAINING HAIRPIN PROBES AND TITLE:

USE THEREOF

Certificate is attached to the Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) of the above-named application.

"EXPRESS MAIL" NUMBER: EV652970449US

DATE OF DEPOSIT: June 24, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Shawn A. Lockett

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